

Actuarial Science (General Education) 2025-26
for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
Oral Comm	3	3
MATH 111/111L/103	4	5
MATH 196	2	2
Language 1	3	3
Holistic Wellness	1	1
Total	16	17

Semester 2	Min	Max
MATH 112/112L	4	4
MATH 198	2	2
ACCT 131	3	3
ECON 120 (social science)	3	3
Language 2	3	3
ENGL 110 or 110H	3	3
Total	18	18

Semester 3	Min	Max
MATH 211/211L	4	4
STAT 291	3	3
ECON 220	3	3
24 GE History	3	3
Literature or Art	3	3
Total	16	16

Semester 4	Min	Max
MATH 261	3	3
STAT 292	3	3
CIS 181	3	3
Intercultural-Global	3	3
Bible	3	3
Total	15	15

Semester 5	Min	Max
MATH 350 or STAT 417	3	3
FINA 305	3	3
CIS 190	3	3
Ethics & Common Good	3	3
Total	12	12

Semester 6	Min	Max
DASC 421 or STAT 325	3	3
INTE 391	3	3
PHYS 211	4	4
Christian Beliefs	3	3
Philosophy or Religion	3	3
Total	16	16

Semester 7	Min	Max
MATH 350 or STAT 417	3	3
One of FINA 307/351/405	3	3
Intercultural-US	3	3
Free elective	3	3
Free elective	3	3
Total	15	15

Semester 8	Min	Max
DASC 421 or STAT 325	3	3
MATH 412	3	3
MATH 496	2	2
Free elective	3	3
Free elective	4	3
Total	15	14

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Actuarial Science (B.S.)		
	Requirements ACSC	Credits
	Total credits in program	123
	Calculated Free electives	16
	Approved Free Electives	16
	Major(+conc) + GenEd	107
General Education & Common Learning requirements		40
First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (MATH 111, CIS 181)	met/major
	Science with Lab (PHYS 211)	met/major
Social Scientific Ways of Knowing	Social Science (ECON 120)	met/major
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature or Arts	3
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural	3
Common Learning	Experiential Learning (INTE 391)	met/major
	Writing in the major	MATH 496
	Capstone	MATH 496

Major requirements (incl. concentration)	67
ACCT 131 Survey of Accounting	3
CIS 181 Computer Programming I	3
CIS 190 Strategic Use of Information Technology	3
PHYS 211 General Physics I	4
MATH 111 Calculus I	4
MATH 112 Calculus II	4
MATH 211 Calculus III	4
MATH 196 Mathematics Seminar	2
MATH 198 Introduction to Mathematical Proof	2
MATH 261 Linear Algebra	3
MATH 350 Mathematics of Finance	3
MATH 412 Real Analysis	3
MATH 496 Mathematics Capstone	2
STAT 291 Probability and Statistics	3
STAT 292 Inferential Statistics	3
<i>One of the following:</i>	3
DASC 421 Advanced Statistical Methods (3)	
STAT 325 Experimental Design (3)	
STAT 417 Mathematical Statistics	3
ECON 120 Principles of Macroeconomics	3
ECON 220 Principles of Microeconomics	3
FINA 305 Financial Management	3
<i>Three credits from the following:</i>	3
FINA 307 Money and Financial Markets (3)	
FINA 351 Investments (3)	
FINA 405 Corporate Finance (3)	
INTE 391 Internship*	3

NOTES

* INTE 391 must be taken for a letter grade to fulfill major requirement.

Computer Science with Secondary Teaching Certification (B.A.)		
	Requirements CIST	Credits
	Total credits in program	123
	Calculated Free electives	3
	Approved Free Electives	3
	Major(+conc) + GenEd	120/1

General Education & Common Learning requirements	37/38
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First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (CIS 181, MATH 180, STAT 269)	met/major
	Science with Lab	4
Social Scientific Ways of Knowing	Social Science (EDUC 203)	met/major
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature (GenEd ENGL) or Arts	met/major
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. (EDUC 346) or Domestic Cross-cultural	met/major
Common Learning	Experiential Learning (TEP 435)	met/major
	Writing in the major	CIS 160 CIS 335 EDUC 331
	Capstone	EDUC 420

Major requirements (incl. concentration)	83
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CIS 160 Intro to CS and Cybersecurity	3
CIS 181 Computer Programming I	3
CIS 191 Web Development: Client Side	3
CIS 251 Hardware and Software	3
CIS 283 Business Systems Applications	3
CIS 284 Computer Programming II	3
CIS 285 Data Structures	3
CIS 291 Web Development: Server Side	3
CIS 325 Data Communications and Networking	3
CIS 332 Database Concepts	3
CIS 335 Software Engineering	3
CIS 384 Elements of Computing Systems	3
CIS 387 Analysis of Algorithms	3
HDFS 311 Adolescent Development	3
EDSP 207 Introduction to Special Education	3
EDSP 307 Inclusion Practices	3
EDUC 203 Educational Psychology	3
EDUC 208 Teaching English Language Learners in K-12 Sch	3
EDUC 331 Instructional Design & Assessment for Middle and Secondary Grades	3
EDUC 346 Socio-Cultural Perspectives on Education	3
GenEd approved ENGL Literature	3
MATH 180 Discrete Math	3
MATH 307 Teaching Secondary Mathematics and Computer Science	2
STAT 269 Introductory Statistics	3
TEP 210 Sophomore Field Experience	0
TEP 310 Junior Field Experience	0
Professional Semester	
EDUC 420 Professional Issues in Education	2
TEP 407 Student Teaching Seminar	1
TEP 410 Secondary Pre-Student Teaching Experience	0
TEP 435 Student Teaching: Secondary	9

Computer Science w/ Secondary Teaching (General Education) 2025-26

for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
CIS 160	3	3
CIS 181	3	3
COMM 105	3	3
Language 1	3	3
Holistic Wellness	1	1
Total	16	16

Semester 2	Min	Max
ENGL 110 or 110H	3	3
CIS 191	3	3
CIS 284	3	3
MATH 180	3	3
Language 2	3	3
Total	15	15

Semester 3	Min	Max
CIS 251 or CIS 291	3	3
CIS 285	3	3
CIS 332	3	3
STAT 269	3	3
24 GE History	3	3
Philosophy or Religion	3	3
Total	18	18

Semester 4	Min	Max
CIS 283	3	3
EDUC 208	3	3
EDSP 207	3	3
TEP 210	0	0
EDUC 203 (social science)	3	3
Intercultural-Global	3	3
Total	15	15

Semester 5	Min	Max
CIS 251 or CIS 291	3	3
CIS 384	3	3
CIS 387	3	3
EDUC 346	3	3
HDFS 311	3	3
Bible	3	3
Total	18	18

Semester 6	Min	Max
CIS 335	3	3
MATH 307	2	2
EDUC 331	3	3
EDSP 307	3	3
TEP 310	0	0
Lab Science	3	4
Total	14	15

Semester 7	Min	Max
Prof Semester		
TEP 407	1	1
TEP 410	0	0
TEP 435	9	9
EDUC 420	2	2
Total	12	12

Semester 8	Min	Max
CIS 325	3	3
Christian Beliefs	3	3
Ethics & Common Good	3	3
Literature	3	3
Free elective	3	2
Total	15	14

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Computer Science (B.S.)		
	Requirements CMSC	Credits
	Total credits in program	123
	Calculated Free electives	11
	Approved Free electives	11
	Major(+conc) + GenEd	112
General Education & Common Learning requirements		43

First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (CIS 181, MATH 111, MATH 180) Science with Lab (PHYS 201, 202 or 211)	met/major met/major
Social Scientific Ways of Knowing	Social Science	3
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature or Arts	3
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural	3
Common Learning	Experiential Learning (INTE 391/394)	met/major
	Writing in the major	CIS 160 CIS 335 CIS 472
	Capstone	CIS 471 CIS 472

Major requirements (incl. concentration)	69
CIS 160 Intro to CS and Cybersecurity	3
CIS 181 Computer Programming I	3
CIS 281 Programming for User Interaction	3
CIS 284 Computer Programming II	3
CIS 285 Data Structures	3
CIS 325 Data Communications and Networking	3
CIS 332 Database Concepts	3
CIS 335 Software Engineering	3
CIS 384 Elements of Computing systems	3
CIS 387 Analysis of Algorithms	3
CIS 416 Operating Systems and Computer Architecture	3
CIS 418 Machine Learning	3
CIS 471 Application Development I (capstone)	3
CIS 472 Application Development II (capstone)	3
CIS 482 Organization of Programming Languages	3
CIS 487 Interactive 3D Graphics	3
<i>Four credits from the following (Junior/Senior year)</i>	4
INTE 394 Internship (4-12 credits)*	
INTE 391 Internship (1-3 credits)*	
MATH 111 Calculus I	4
MATH 180 Discrete Math	3
MATH 261 Linear Algebra	3
<i>Four credits from the following</i>	4
PHYS 201 Introductory Physics I (4)	
PHYS 202 Introductory Physics II (4) (recommended)	
PHYS 211 General Physics I (4)	
STAT 291 Probability and Statistics	3

NOTES

INTE 391/394 must be taken for a letter grade to fulfill major requirement.

Computer Science (General Education) 2025-26

for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
CIS 181	3	3
MATH 180	3	3
COMM 105	3	3
Language 1	3	3
Holistic Wellness	1	1
Total	16	16

Semester 2	Min	Max
ENGL 110 or 110H	3	3
CIS 160	3	3
CIS 284	3	3
Language 2	3	3
Social Science	3	3
Total	15	15

Semester 3	Min	Max
CIS 285	3	3
CIS 281	3	3
CIS 332	3	3
MATH 111/111L/103	4	5
24GE History	3	3
Total	16	17

Semester 4	Min	Max
CIS 335	3	3
CIS 325	3	3
MATH 261	3	3
PHYS 202	4	4
Intercultural-Global	3	3
Total	16	16

Semester 5	Min	Max
CIS 387	3	3
CIS 384	3	3
STAT 291	3	3
Philosophy or Religion	3	3
Bible	3	3
Total	15	15

Semester 6	Min	Max
CIS 416 or CIS 418	3	3
CIS 482 or 487	3	3
Christian Beliefs	3	3
Literature or Art	3	3
Free electives	3	3
Total	15	15

Semester 7	Min	Max
CIS 471	3	3
INTE 394	4	4
Intercultural-US	3	3
Free elective	6	6
Total	16	16

Semester 8	Min	Max
CIS 472	3	3
CIS 416 or CIS 418	3	3
CIS 487 or CIS 482	3	3
Ethics & Common Good	3	3
Free electives	2	1
Total	14	13

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Cybersecurity (General Education) 2025-26
for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
CIS 160	3	3
CIS 181	3	3
COMM 105	3	3
Language 1	3	3
Holistic Wellness	1	1
Total	16	16

Semester 2	Min	Max
ENGL 110 or 110H	3	3
CIS 284	3	3
MATH 180	3	3
Language 2	3	3
Social Science	3	3
Total	15	15

Semester 3	Min	Max
CIS 255	3	3
CIS 285	3	3
STAT 2xx	3	3
History	3	3
Literature or Art	3	3
Total	15	15

Semester 4	Min	Max
CIS 357	3	3
CIS 325	3	3
CIS 332	3	3
Lab Science	3	4
Intercultural-Global	3	3
Total	15	16

Semester 5	Min	Max
CIS 373	3	3
CIS 384 or BUSA/CRIJ/POLI	3	3
INTE 391/394	1	4
Bible	3	3
Free elective	3	2
Philosophy or Religion	3	3
Total	16	18

Semester 6	Min	Max
CIS 416 or BUSA/CRIJ/POLI	3	3
CIS 474 or CIS 355	3	3
INTE 391/394	1	4
Christian Beliefs	3	3
Ethics & Common Good	3	3
Free elective	3	0
Total	16	16

Semester 7	Min	Max
CIS 484 or BUSA/CRIJ/POLI	3	3
CIS 421	3	3
Intercultural-US	3	3
Free electives	6	5
Total	15	14

Semester 8	Min	Max
CIS 474 or CIS 355	3	3
CIS 494	3	3
Free elective	9	6
Total	15	12

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Cybersecurity (B.S.)		
	Requirements CYSE	Credits
	Total credits in program	123
	Calculated Free electives	19
	Approved Free Electives	19
	Major(+conc) + GenEd	104/5

General Education & Common Learning requirements		46/7
First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (CIS 181, MATH 180)	met/major
	Science with Lab	3/ 4
Social Scientific Ways of Knowing	Social Science	3
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature or Arts	3
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural	3
Common Learning	Experiential Learning (INTE 391/394)	met/major
	Writing in the major	CIS 160 CIS 357 CIS 494
	Capstone	CIS474, CIS 484

Major requirements (incl. concentration)		58
CIS 160 Introduction to Computer Science and Cybersecurity		3
CIS 181 Computer Programming I		3
CIS 255 NIX System Administration and Security		3
CIS 284 Computer Programming II		3

CIS 285 Data Structures	3
CIS 325 Data Communications and Networking	3
CIS 332 Database Concepts	3
CIS 355 Network Security	3
CIS 357 Information Assurance and Risk Management	3
CIS 373 Cloud Computing	3
CIS 421 Cybersecurity Architecture	3
CIS 474 Digital Forensics	3
CIS 494 Cybersecurity Capstone	3
<i>One of the following sequences:</i>	9
Option 1 (Technical):	
CIS 384 Elements of Computer Systems (3)	
CIS 416 Operating Systems & Computer Architecture (3)	
CIS 484 Ethical Hacking (3)	
Option 2 (Policy) 9 credits from the following:	
BUSA 120 Principles of Management (3)	
BUSA 381 Business Law (3)	
BUSA 405 Supply Chain Management (3)**	
CRIJ 103 Introduction to Criminal Justice (3)	
CRIJ 362 Criminology (3)	
POLI 323 Public Policy (3)**	
<i>Four credits from the following:</i>	4
INTE 391 Internship (1-3)*	
INTE 394 Internship (4-12)*	
MATH 180 Discrete Mathematics	3
<i>Three credits from the following:</i>	3
STAT 269 Introductory Statistics (3)	
STAT 281 Applied Statistics for Management (3)	
STAT 291 Probability and Statistics (3)	

NOTES

* INTE 391/394 must be taken for a letter grade to fulfill major requirement

** This course requires pre-requisite(s), which may increase the total credits required for the major.

Data Science (General Education) 2025-26
for students who matriculate beginning Fall 2024 and beyond

Semester 1	Min	Max
IDFY 101/102H	3	3
COMM 105	3	3
MATH 111/111L/103	4	5
CIS 181	3	3
Language 1	3	3
Total	16	17
Semester 3	Min	Max
STAT 291	3	3
Literature or Art	3	3
CIS 332	3	3
Bible	3	3
24GE History	3	3
Total	15	15
Semester 5	Min	Max
Philosophy-Reli	3	3
Social Science	3	3
DASC 345	3	3
Free elective	3	3
CIS 387	3	3
Total	15	15
Semester 7	Min	Max
STAT 331	3	3
Intercultural-US	3	3
Free elective	9	6
Total	15	12

Semester 2	Min	Max
ENGL 110/110H	3	3
MATH 112	4	4
CIS 284	3	3
Language 2	3	3
Lab Science	3	4
Holistic Wellness	1	1
Total	17	18
Semester 4	Min	Max
MATH 261	3	3
STAT 292	3	3
CIS 285	3	3
DASC 201	3	3
Intercultural-Global	3	3
Total	15	15
Semester 6	Min	Max
Christian Beliefs	3	3
INTE 391 (ELI)	3	3
DASC 421	3	3
Free elective	7	8
Total	16	17
Semester 8	Min	Max
Ethics in the Common Good	3	3
MATH 496	2	2
STAT 325	3	3
CIS 418	3	3
Free elective	3	3
Total	14	14

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Data Science (B.S.)		
	Requirements DASC	Credits
	Total credits in program	123
	Calculated Free Electives	22
	Approved Free Electives	22
	Major(+conc) + GenEd	101/2

General Education & Common Learning requirements			46/7
First Year Seminar	IDFY 101/102H		3
Written Communication	ENGL 110		3
Oral Communication	COMM 105		3
Mathematical and Scientific Ways of Knowing	Mathematics (MATH 111)	met/major	
	Science with Lab		3/ 4
Social Scientific Ways of Knowing	Social Science		3
Cultural/Humanistic Ways of Knowing	24GE History		3
Literary & Aesthetic Ways of Knowing	Literature or Arts		3
Cultural/Humanistic Ways of Knowing	Philosophy or Religion		3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language		6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd language		3
Bible	24GE Bible		3
Christian Beliefs	24GE Christian Beliefs		3
Holistic Wellness	WELL 1xx		1
Ethics and the Common Good	24GE Ethics and the Common Good		3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural		3
Common Learning	Experiential Learning (INTE 391)	Met/major	
	Writing in the major		DASC 421 MATH 496
	Capstone		MATH 496

Major requirements (incl. concentration)	55
CIS 181 Computer Programming I	3
CIS 284 Computer Programming II	3
CIS 285 Data Structures	3
CIS 332 Database Concepts	3
CIS 387 Analysis of Algorithms	3
CIS 418 Machine Learning	3
DASC 201 Intro to Data Science	3
DASC 345 Time Series Analysis	3
DASC 421 Advanced Statistical Methods	3
INTE 391 Internship*	3
MATH 111 Calculus I	4
MATH 112 Calculus II	4
MATH 261 Linear Algebra	3
MATH 496 Mathematics Capstone	2
STAT 291 Probability and Statistics	3
STAT 292 Inferential Statistics	3
STAT 325 Experimental Design	3
STAT 331 Nonparametric Statistical Methods	3

NOTES

* INTE 391 must be taken for a letter grade to fulfill major requirement

Digital Media - Mobile App General Education 2025-26

for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
CIS 181	3	3
COMM 105	3	3
COMM 203	3	3
Language 1	3	3
Holistic Wellness	1	1
Total	16	16

Semester 2	Min	Max
ENGL 110/110H	3	3
CIS 160	3	3
CIS 191	3	3
Language 2	3	3
DIGM 105	3	3
Total	15	15

Semester 3	Min	Max
COMM 217	3	3
CIS 281	3	3
DIGM 210 or 215	1	1
Social Science	3	3
24GE History	3	3
Total	16	16

Semester 4	Min	Max
CIS 315 or CIS 287	3	3
ART/ARTH selective	3	3
ARTH 210 or COMM 321,327	3	3
COMM 382	3	3
Lab Science	3	4
Total	15	16

Semester 5	Min	Max
CIS 291	3	3
CIS 332	3	3
ART/ARTH selective	3	3
DIGM 210 or 215	1	1
Philosophy or Religion	3	3
Bible	3	3
Total	16	16

Semester 6	Min	Max
CIS 315 or CIS 287	3	3
MUCM 353	3	3
ART/ARTH selective	3	3
Christian Beliefs	3	3
Free elective	6	5
Total	18	17

Semester 7	Min	Max
DIGM 490	3	3
DIGM Selective	3	3
Intercultural-US	3	3
Free elective	6	6
Total	15	15

Semester 8	Min	Max
DIGM Selective	3	3
Ethics	3	3
Free elective	6	6
Total	12	12

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Digital Media (B.A.) Mobile Application and Game Design concentration		
	Requirements DIGM-MAGD	Credits
	Total credits in program	123
	Calculated Free electives	20
	Approved Free Electives	20
	Major(+conc) + GenEd	103/4
General Education & Common Learning requirements		40/1
First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (CIS 181)	met/major
	Science with Lab	3/ 4
Social Scientific Ways of Knowing	Social Science	3
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature or Arts	waived
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global (ARTH 210, COMM 321, or 327) or International Cross-cultural or 3rd Level Language	met/major
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural	3
Common Learning	Experiential Learning	0
	Writing in the major	COMM 382, DIGM 490
	Capstone	DIGM 490

Major requirements (incl. concentration)	63
DIGM 105 Foundations in Creative Digital Media	3
DIGM 210 Video and Church Media Seminar	1
DIGM 215 Game and Art Design Seminar	1
<i>Nine credits from the following:</i>	9
ART 121 Form, Space, & Media (3)	
ART 171 Drawing I (3)	
ART 182 Color and Composition (3)	
ART 217 Digital Imaging (3)	
ART 251 Darkroom Photography (3)	
ART 336 Interactive Design (3)	
ART 352 Digital Photography (3)	
ART 431 Motion Design (3)	
<i>One of the following:</i>	
ARTH 151 Art History: 1400-21st Century (3)	
ARTH 205 Design History and Theory (3)	
ARTH 209 History of Modern Art (3)	
<i>Three credits from the following:</i>	3
ARTH 210 Topics in Non-Western Art (3)	
COMM 321 Global Indigenous Media (3)	
COMM 327 Latin American Cinema (3)	
CIS 160 Introduction to Computer Science and Cybersecurity	3
CIS 181 Computer Programming I	3
CIS 191 Web Development: Client Side	3
COMM 203 Basic Video and Editing Techniques	3
COMM 217 Introduction to Film	3
COMM 382 History and Theory of Digital Media*	3
DIGM 490 Senior Seminar and Project	4
MUCM 353 Sound Design	3
<i>Six credits of Digital Media Electives* (list below)</i>	6
Mobile Applications and Game Design concentration	15
CIS 281 Programming for User Interaction	3
CIS 287 Introduction to Game Design	3

CIS 291 Web Development: Server Side	3
CIS 315 Introduction to Mobile Application Design	3
CIS 332 Database Concepts	3

NOTES

*Courses taken to fulfill a major requirement cannot also count towards the six credits of Digital Media electives requirement.

Digital Media Electives

ART 171 Drawing I (3)
ART 182 Color and Composition (3)
ART 236 Design Thinking and Visual Culture (3)
ART 237 Typography (3)
ART 251 Darkroom Photography (3)
ART 217 Digital Imaging (3)
ART 336 Interactive Design (3)
ART 337 Graphic Design & Prof Pract (3)
ART 338 Digital Illustration (3)
ART 347 Service Centered Design (3)
ART 352 Digital Photography (3)
ART 382 Topics in Graphic Design (3)
ART 420 Designer as Author (3)
ART 431 Motion Design (3)
ART 386 Typography II (3)
ARTH 150 Art History: Prehistory-1400 (3)
ARTH 151 Art History: 1400-21 st Century (3)
ARTH 205 Design History and Theory (3)
ARTH 209 History of Modern Art (3)
ARTH 309 Contemporary Art: 1945 – Present (3)
CIS 284 Computer Programming II (3)
CIS 287 Introduction to Game Design (3)
CIS 291 Web Development: Server Side (3)

CIS 315 Intro to Mobile App Design (3)**
CIS 285 Data Structures (3)
CIS 332 Database Concepts (3)
CIS 387 Analysis of Algorithms (3)**
COMM 205 Principles of Strategic Public Relations (3)
COMM 218 Mass Media and Society (3)
COMM 220 Advanced Cinematography & Lighting Techniques (3)**
COMM 251 Film History I (3)**
COMM 252 Film History II (3)**
COMM 254 Screenwriting I (3)
COMM 255 Screenwriting II (3)
COMM 310 Fundraising Principles and Strategies (3)
COMM 317 Advanced Editing and Effects (3)**
COMM 328 Methods and Issues in Film Studies (3)**
COMM 341 Communication Theory (3)
COMM 342 Intercultural Communication (3)
COMM 353 Crisis Communication (3)
COMM 357 Event Planning (3)
COMM 363 Documentary and Promotional Film (3)
COMM 380 Advanced Topics in Film Production (3)**
INTE 391 Internship (1-3)***
INTE 394 Internship (4-12)***
THEA 115 Production Practicum (1)
THEA 150 Intro to Tech Theatre & Design (3)
THEA 250 Stage Management (3)
THEA 350 Scenographic Techniques (3)

** This course requires prerequisite(s), which may increase the total credits required for the major.

*** INTE 391/394 must be taken for a letter grade to fulfill Major requirement.

Mathematics (General Education) 2025-26
for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
ENGL 110 or 110H	3	3
MATH 111/111L/103	4	5
MATH 196	2	2
Language 1	3	3
Total	15	16

Semester 2	Min	Max
ECON 120	3	3
MATH 112/112L	4	4
MATH 198	2	2
COMM 105	3	3
Language 2	3	3
Holistic Wellness	1	1
Total	16	16

Semester 3	Min	Max
MATH 211/211L	3	3
MATH 261	3	3
STAT 291	3	3
CIS 181	3	3
History	3	3
Total	15	15

Semester 4	Min	Max
MATH 261	3	3
STAT 292	3	3
PHYS 211/211L	4	4
Intercultural-Global or 3rd language	3	3
Bible	3	3
Total	16	16

Semester 5	Min	Max
MATH 308	3	3
MATH 362	3	3
PHYS 212/212L	4	4
Phil or Religion	3	3
Christian Beliefs	3	3
Total	16	16

Semester 6	Min	Max
MATH 412	3	3
Literature or Art	3	3
Intercultural-Global or 3rd language	3	3
Ethics	3	3
Free electives	3	2
Total	15	14

Semester 7	Min	Max
Major Selective 2	3	3
Major Selective 3	3	3
Intercultural - US	3	3
Free electives	7	7
Total	16	16

Semester 8	Min	Max
MATH 496	2	2
Free electives	12	12
Total	14	14

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Mathematics (B.A.)		
	Requirements MATH	Credits
	Total credits in program	123
	Calculated Free electives	24
	Approved Free Electives	24
	Major(+conc) + GenEd	99

General Education & Common Learning requirements	40
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First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (CIS 181, MATH 111)	met/major
	Science with Lab (PHYS 211)	met/major
Social Scientific Ways of Knowing	Social Science (ECON 120)	met/major
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature or Arts	3
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural	3
Common Learning	Experiential Learning	0
	Writing in the major	MATH 496
	Capstone	MATH 496

Major requirements (incl. concentration)	59
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CIS 181 Computer Programming I	3
ECON 120 Principles of Macroeconomics	3

Intended for use during Academic Year 2025-26

MATH 111 Calculus I	4
MATH 112 Calculus II	4
MATH 196 Mathematics Seminar	2
MATH 198 Introduction to Mathematical Proof	2
MATH 211 Calculus III	4
MATH 261 Linear Algebra	3
MATH 308 Differential Equations	3
MATH 362 Algebraic Structures	3
MATH 412 Introduction to Real Analysis	3
MATH 496 Mathematics Capstone	2
PHYS 211 General Physics I	4
PHYS 212 General Physics II	4
STAT 291 Probability and Statistics	3
STAT 292 Inferential Statistics	3
<i>Nine additional credits from the following:</i>	9
MATH 301 Numerical Analysis (3)	
MATH 341 Mathematical Modeling (3)	
MATH 342 Applied Combinatorics (3)	
MATH 350 Mathematics of Finance I (3)	
MATH 382 Geometry (3)	
MATH 392 History of Mathematics (3)	
MATH 405 Introduction to Mathematical Research (3)	
MATH 422 Mathematics Research (1-3)*	
MATH 490 Topics in Mathematics (3)	
MATH 491 Independent Study (1-3)	
ENGR 365 Linear Systems (3)	
Any STAT/DASC 3xx or 4xx course (not to exceed 6 credits)	

NOTES

Note: Students in the mathematics and mathematics with teaching certification majors are encouraged to complete the sequence ECON 120: Principles of Macroeconomics and ECON 220: Principles of Microeconomics. The study of economics provides an excellent foundation for many careers in mathematical sciences. A double-major or minor in economics is a strong, marketable addition to the mathematics major, and either combination can be completed in 8 semesters.

* Up to 3 credits may count towards the nine credits of selectives.

Mathematics and Physics (B.A.) (double major – not an official major)		
	Requirements	Credits
	Total credits in program	123/ 131
	Calculated Free electives	1
	Approved Free Electives	1
	Major(+conc) + GenEd	122/ 131

General Education & Common Learning requirements		37/ 43
First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (MATH 111) Science with Lab (PHYS 211)	met/major met/major
Social Scientific Ways of Knowing	Social Science (ECON 120, if Math primary)	met/major
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature or Arts	3
Cultural/Humanistic Ways of Knowing	Philosophy (PHIL 101) or Religion	met/major
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural	3
Common Learning	Experiential Learning	0
	Writing in the major	MATH 496, PHYS 494
	Capstone	SCIE 495

Major requirements (incl. concentration)	88
CHEM 105 General Chemistry I	4
SCIE495 Capstone Natural Sciences	3
CIS 181 Computer Programming I	3
ECON 120 Introduction to Macroeconomics	3
ENGR 367 Electromagnetics	3
MATH 111 Calculus I (possible addition of MATH 103 Supplementary Calculus)	4/ 5
MATH 112 Calculus II	4
MATH 196 Mathematics Seminar	2
MATH 198 Introduction to Mathematical Proof	2
MATH 211 Calculus III	4
MATH 261 Linear Algebra	3

MATH 308 Differential Equations	3
MATH 362 Algebraic Structures	3
MATH 412 Real Analysis	3
PHIL 101 Problems in Philosophy	3
PHYS 211 General Physics I	4
PHYS 212 General Physics II	4
PHYS 251 Modern Physics	4
PHYS 328 Classical Mechanics	3
PHYS 402 Quantum Mechanics	3
STAT 291 Probability and Statistics	3
STAT 292 Inferential Statistics (3)	3
One of the following:	3/ 3.5
ENGR 371 Thermodynamics (3)	
CHEM 437 Physical Chemistry I (3)	
One of the following:	2/ 3
MATH 496 Mathematic Capstone (2)	
PHYS 494 Senior Physics Seminar (3)	
Nine (9) credits from the following:	9
MATH 301 Numerical Analysis (3)	
MATH 341 Mathematical Modeling (3)	
MATH 382 Geometry (3)	
MATH 392 History of Mathematics (3)	
MATH 405 Introduction to Mathematical Research (3)	
MATH 490 Topics in Mathematics (3)	
MATH 491 Independent Study (3)	
ENGR 365 Linear Systems (3)	
STAT 3xx/4xx (3)	

NOTES

(Not a formal major; this sheet clarifies the policy for double majoring in Mathematics and Physics.)

Mathematics with Secondary Teaching (General Education) 2025-26

for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
ENGL 110 or 110H	3	3
MATH 111/111L/103	4	5
MATH 196	2	2
Language 1	3	3
Holistic Wellness	1	1
Total	16	17

Semester 2	Min	Max
COMM 105	3	3
MATH 112/112L	4	4
MATH 198	2	2
CIS 181	3	3
Literature	3	3
Language 2	3	3
Total	18	18

Semester 3	Min	Max
MATH 211/211L	4	4
STAT 291	3	3
EDUC 203	3	3
EDUC 346	3	3
EDSP 207	3	3
TEP 210	0	0
Total	16	16

Semester 4	Min	Max
MATH 261	3	3
PHYS 211/211L	4	4
Bible	3	3
STAT 292	3	3
EDUC 208	3	3
Total	16	16

Semester 5	Min	Max
MATH 308	3	3
MATH 362	3	3
PHYS 212/212L	4	4
History	3	3
Christian Beliefs	3	3
Total	16	16

Semester 6	Min	Max
MATH 307	2	2
MATH 382 or MATH 412	3	3
Philosophy or Religion	3	3
EDSP 307	3	3
EDUC 331	3	3
HDFS 311	3	3
TEP 310	0	0
Total	17	17

Semester 7	Min	Max
Professional Semester		
TEP 407	1	1
TEP 410	0	0
TEP 435	9	9
EDUC 420	2	2
Total	12	12

Semester 8	Min	Max
MATH 382 or MATH 412	3	3
MATH 496	2	2
Ethics & Common Good	3	3
Intercultural - Global	3	3
Free elective	1	0
Total	12	11

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings

Mathematics with Secondary Teaching Certification (B.A.)		
	Requirements MATT	Credits
	Total credits in program	123
	Calculated Free electives	1
	Approved Free Electives	1
	Major(+conc) + GenEd	122

General Education & Common Learning requirements	34
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First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (CIS 181, MATH 111)	met/major
	Science with Lab (PHYS 211)	met/major
Social Scientific Ways of Knowing	Social Science (EDUC 203)	met/major
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature (GenEd ENGL) or Arts	met/major
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. (EDUC 346) or Domestic Cross-cultural	met/major
Common Learning	Experiential Learning	0
	Writing in the major	MATH 496
	Capstone	MATH 496, EDUC 420

Major requirements (incl. concentration)	88
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CIS 181 Computer Programming I	3
MATH 111 Calculus I	4
MATH 112 Calculus II	4

MATH 196 Mathematics Seminar	2
MATH 198 Introduction to Mathematical Proof	2
MATH 211 Calculus III	4
MATH 261 Linear Algebra	3
MATH 307 Teaching Secondary Mathematics and Computer Science	2
MATH 308 Differential Equations	3
MATH 362 Algebraic Structures	3
MATH 382 Geometry	3
MATH 412 Introduction to Real Analysis	3
MATH 496 Mathematics Capstone*	2
PHYS 211 General Physics I	4
PHYS 212 General Physics II	4
STAT 291 Probability and Statistics	3
STAT 292 Inferential Statistics	3
EDSP 207 Introduction to Special Education	3
EDSP 307 Inclusion Practices	3
EDUC 203 Educational Psychology	3
EDUC 208 Teaching English Language Learners in K-12 Sch	3
EDUC 331 Instructional Design & Assessment for Middle and Secondary Grades	3
EDUC 346 Socio-Cultural Perspectives in Education	3
ENGL meeting GenEd Literary	3
HDFS 311 Adolescent Development	3
TEP 210 Sophomore Field Experience	0
TEP 310 Junior Field Experience	0

Professional semester

EDUC 420 Professional Issues in Education	2
TEP 407 Student Teaching Seminar	1
TEP 410 Secondary Pre-Student Teaching Experience	0
TEP 435 Student Teaching: Secondary	9

Physics (B.A.)		
	Requirements PHYS-BA	Credits
	Total credits in program	123
	Calculated Free electives	24
	Approved Free Electives	24
	Major(+conc) + GenEd	99/103

General Education & Common Learning requirements			40
First Year Seminar	IDFY 101/102H		3
Written Communication	ENGL 110/110H		3
Oral Communication	COMM 105		3
Mathematical and Scientific Ways of Knowing	Mathematics (MATH 111)	met/major	
	Science with Lab (CHEM 105, PHYS 211)	met/major	
Social Scientific Ways of Knowing	Social Science		3
Cultural/Humanistic Ways of Knowing	24GE History		3
Literary & Aesthetic Ways of Knowing	Literature or Arts		3
Cultural/Humanistic Ways of Knowing	Philosophy (PHIL 101) or Religion	met/major	
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language		6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language		3
Bible	24GE Bible		3
Christian Beliefs	24GE Christian Beliefs		3
Holistic Wellness	WELL 1xx		1
Ethics and the Common Good	24GE Ethics and the Common Good		3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural		3
Common Learning	Experiential Learning		0
	Writing in the major	PHYS 494	
	Capstone	SCIE 495	

Major requirements (incl. concentration)		59/ 63
CHEM 105 General Chemistry I		4
ENGR 212 Programming for Engineers		2
ENGR 367 Electromagnetics		3
MATH 111 Calculus I		4
MATH 112 Calculus II		4

MATH 211 Calculus III	4
PHYS 211 General Physics I	4
PHYS 212 General Physics II	4
PHYS 251 Modern Physics	4
PHYS 317 Optics	3
PHYS 328 Classical Mechanics	3
PHYS 402 Quantum Mechanics	3
PHYS 494 Senior Physics Seminar	2
SCIE 495 Natural Sciences Capstone	3
Three credits from the following:	3
ENGR 213 Engineering Statistics (3)	
STAT 291 Probability and Statistics (3)	
One of the following:	3/ 3.5
ENGR 371 Thermodynamics (3)	
CHEM 437 Physical Chemistry I (3.5)	
One of the following options:	3/ 6
MATH 270 Linear and Differential Methods (3)	
MATH 261 Linear Algebra (3) and MATH 308 Differential Equations (3)	
PHIL 101 Problems in Philosophy	3

NOTES

Note: Students may complete a double major in Mathematics and Physics (BA) by completing all courses listed in each major, subject to the following criteria. This is an exception to the standard college course overlap policy. For a double-major in MATH and PHYS (BA), a student must:

- Complete MATH 261 and MATH 308 in lieu of MATH 270
- Complete STAT 291 (not ENGR 342)
- The student may choose one of (MATH 496, PHYS 494) and is not required to complete both.

Physics - BA (General Education) 2025-26
for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
Language 1	3	3
COMM 105	3	3
MATH 111/111L/103	4	5
CHEM 105/105L	4	4
Total	17	18

Semester 2	Min	Max
ENGL 110 or 110H	3	3
Language 2	3	3
History	3	3
MATH 112/112L	4	4
PHYS 211/211L	4	4
Holistic Wellness	1	1
Total	18	18

Semester 3	Min	Max
Literature or Art	3	3
Bible	3	3
MATH 308	3	3
MATH 211/211L	4	4
PHYS 212/212L	4	4
Total	17	17

Semester 4	Min	Max
Intercultural-Global	3	3
PHIL 101	3	3
ENGR 212	2	2
PHYS 251/251L	4	4
MATH 261	3	3
Total	15	15

Semester 5	Min	Max
Social Science	3	3
Christian Beliefs	3	3
ENGR 367 or 371	3	3
STAT 291 or ENGR 213	3	3
Total	12	12

Semester 6	Min	Max
PHYS 317	3	3
PHYS 328 or PHYS 402	3	3
Intercultural-US	3	3
Free electives	6	6
Total	15	15

Semester 7	Min	Max
Ethics and Common Good	3	3
Arts	3	3
ENGR 367 or 371	3	3
Free electives	6	6
Total	15	15

Semester 8	Min	Max
PHYS 328 or PHYS 402	3	3
PHYS 494	2	2
SCIE 495	3	3
PHYS 317	3	3
Free electives	3	2
Total	14	13

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Physics - BS (General Education) 2025-26
for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
Language 1	3	3
COMM 105	3	3
MATH 111/111L/103	4	5
CHEM 105/105L	4	4
Total	17	18

Semester 2	Min	Max
ENGL 110 or 110H	3	3
Language 2	3	3
History	3	3
MATH 112/112L	4	4
PHYS 211/211L	4	4
Holistic Wellness	1	1
Total	18	18

Semester 3	Min	Max
Literature or Art	3	3
Bible	3	3
MATH 308	3	3
MATH 211/211L	4	4
PHYS 212/212L	4	4
Total	17	17

Semester 4	Min	Max
Intercultural-Global	3	3
PHIL 101	3	3
ENGR 212	2	2
PHYS 251/251L	4	4
MATH 261	3	3
Total	15	15

Semester 5	Min	Max
Social Science	3	3
Christian Beliefs	3	3
ENGR 367 or 371	3	3
STAT 291 or ENGR 213	3	3
PHYS 421 or 425	3	3
SCIE 393	1	1
Total	16	16

Semester 6	Min	Max
PHYS 317	3	3
PHYS 328 or PHYS 402	3	3
Intercultural-US	3	3
PHYS 322	3	3
Free electives	2	1
Total	14	13

Semester 7	Min	Max
PHYS 421 or 425	3	3
PHYS 422	3	3
ENGR 367 or 371	3	3
Ethics and Common Good	3	3
Total	12	12

Semester 8	Min	Max
PHYS 328 or PHYS 402	3	3
PHYS 317	3	3
PHYS 494	2	2
SCIE 495	3	3
Arts	3	3
Total	14	14

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Physics (B.S.)		
	Requirements PHYS-BS	Credits
	Total credits in program	123
	Calculated Free electives	15
	Approved Free Electives	15
	Major(+conc) + GenEd	108/ 113

General Education & Common Learning requirements			40
First Year Seminar	IDFY 101/102H		3
Written Communication	ENGL 110/110H		3
Oral Communication	COMM 105		3
Mathematical and Scientific Ways of Knowing	Mathematics (MATH 111)	met/major	
	Science with Lab (CHEM 105, PHYS 211)	met/major	
Social Scientific Ways of Knowing	Social Science		3
Cultural/Humanistic Ways of Knowing	24GE History		3
Literary & Aesthetic Ways of Knowing	Literature or Arts		3
Cultural/Humanistic Ways of Knowing	Philosophy (PHIL 101) or Religion	met/major	
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language		6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd Level Language		3
Bible	24GE Bible		3
Christian Beliefs	24GE Christian Beliefs		3
Holistic Wellness	WELL 1xx		1
Ethics and the Common Good	24GE Ethics and the Common Good		3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural		3
Common Learning	Experiential Learning		0
	Writing in the major	PHYS 494	
	Capstone	SCIE 495	

Major requirements (incl. concentration)		68/ 73
CHEM 105 General Chemistry I		4
ENGR 212 Programming for Engineers		2
ENGR 367 Electromagnetics		3
MATH 111 Calculus I		4
MATH 112 Calculus II		4
MATH 211 Calculus III		4
PHYS 211 General Physics I		4
PHYS 212 General Physics II		4
PHYS 251 Modern Physics		4

PHYS 317 Optics	3
PHYS 328 Classical Mechanics	3
PHYS 402 Quantum Mechanics	3
PHYS 421 Particle Physics	3
PHYS 425 Solid State Physics	3
PHYS 494 Senior Physics Seminar	2
SCIE 495 Natural Sciences Capstone	3

Three credits from the following: 3

- ENGR 213 Engineering Statistics (3)
- STAT 291 Probability and Statistics (3)

One of the following: 3/ 3.5

- ENGR 371 Thermodynamics (3)
- CHEM 437 Physical Chemistry I (3.5)

One of the following options: 3/ 6

- MATH 270 Linear and Differential Methods (3)
- MATH 261 Linear Algebra (3) **and** MATH 308 Differential Equations (3)

PHIL 101 Problems in Philosophy 3

Three credits from the following: 3

- CIS 284 Computer Programming II (3)
- SCIE 393 Research Methods in the Sciences (1)
- ENGR 324 Control Systems* (4)
- ENGR 365 Linear Systems* (3)
- ENGR 345 Fluid Mechanics* (4)
- PHYS 322 Independent Research (1-3)
- PHYS 422 Senior Research (1-3)

NOTES

*This course requires pre-requisite(s), which may increase the total credits required for the major.

Physics with Secondary Teaching Certification (B.A.)		
	Requirements PHYT	Credits
	Total credits in program	124/7
	Calculated Free electives	0
	Approved Free Electives	0
	Major(+conc) + GenEd	124/7

General Education & Common Learning requirements	28
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First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (MATH 111)	met/major
	Science with Lab (CHEM 105, PHYS 211)	met/major
Social Scientific Ways of Knowing	Social Science (EDUC 203)	met/major
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature (GenEd ENGL) or Arts	met/major
Cultural/Humanistic Ways of Knowing	Philosophy (PHIL 101) or Religion	met/major
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global (if THEO 223 for Christian Beliefs) or International Cross-cultural or 3rd Level Language	waived
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs (THEO 223 required to waive Intercultural Perspectives Global)	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. (EDUC 346) or Domestic Cross-cultural	met/major
Common Learning	Experiential Learning	TEP 435
	Writing in the major	PHYS 494
	Capstone	SCIE 495, EDUC 420

Major requirements (incl. concentration)	96/9
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CHEM 105 General Chemistry I	4
ENGR 212 Programming for Engineering	2
EDSP 207 Introduction to Special Education	3
EDSP 307 Inclusion Practices	3
EDUC 203 Educational Psychology	3
EDUC 208 Teaching English Language Learners in K-12 Sch	3

EDUC 331 Instructional Design and Assessment for Middle and Secondary Grades	3
EDUC 346 Socio-cultural Perspectives on Education	3
ENGL meeting GenEd Literary	3
<i>One of the following:</i>	3
ENGR 213 Engineering Statistics (3)	
STAT 291 Probability and Statistics (3)	
ENGR 367 Electromagnetics	3
ENGR 371 Thermodynamics	3
HDFS 311 Adolescent Development	3
MATH 111 Calculus I	4
MATH 112 Calculus II	4
MATH 211 Calculus III	4
<i>One of the following options:</i>	3/6
MATH 270 Linear and Differential Methods (3)	
MATH 261 Linear Algebra (3) and MATH 308 Differential Equations (3)	
PHYS 211 General Physics I	4
PHYS 212 General Physics II	4
PHYS 251 Modern Physics	4
PHYS 317 Optics	3
PHYS 328 Classical Mechanics	3
PHYS 402 Quantum Mechanics	3
PHYS 494 Senior Physics Seminar	2
PHIL 101 Problems in Philosophy	3
SCIE 307 Teaching Lab Sciences in Secondary Education	1
SCIE 495 Natural Sciences Capstone	3
TEP 210 Sophomore Field Experience	0
TEP 310 Junior Field Experience	0

Professional semester

EDUC 420 Professional Issues in Education	2
TEP 407 Student Teaching Seminar	1
TEP 410 Secondary Pre-Student Teaching Experience	0
TEP 435 Student Teaching: Secondary	9

Physics w/ Secondary Teaching (General Education) 2025-26

for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
MATH 111/111L/103	4	5
CHEM 105/105L	4	4
COMM 105	3	3
Language 1	3	3
Total	17	18

Semester 2	Min	Max
ENGL 110/110H	3	3
MATH 112/112L	4	4
PHYS 211/211L	4	4
Language 2	3	3
Literature	3	3
Holistic Wellness	1	1
Total	18	18

Semester 3	Min	Max
MATH 211/211L	4	4
PHYS 212/212L	4	4
EDUC 346	3	3
PHIL 101	3	3
Total	14	14

Semester 4	Min	Max
ENGR 212	2	2
PHYS 251/251L	4	4
MATH 270 or MATH 261	3	3
EDSP 207	3	3
EDUC 203 (social science)	3	3
TEP 210	0	0
History	3	3
Total	18	18

Semester 5	Min	Max
ENGR 367	3	3
ENGR 371	3	3
STAT 291 or ENGR 213	3	3
EDUC 331	3	3
TEP 310	0	0
EDSP 307	3	3
EDUC 208	3	3
Total	18	18

Semester 6	Min	Max
PHYS 317 (or semester 8)	3	3
PHYS 328 or PHYS 402	3	3
SCIE 307	1	1
HDFS 311	3	3
Bible	3	3
MATH 308 (if MATH 270 not selected)	0	3
Total	13	16

Semester 7	Min	Max
Professional Semester		
TEP 407	1	1
TEP 410	0	0
TEP 435	9	9
EDUC 420	2	2
Total	12	12

Semester 8	Min	Max
PHYS 328 or PHYS 402	3	3
PHYS 494	2	2
SCIE 495	3	3
PHYS 317	3	3
Ethics and Common Good	3	3
Total	14	14

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Software Development (General Education) 2025-26
for students who matriculate beginning Fall 2024

Semester 1	Min	Max
IDFY 101 or 102H	3	3
CIS 181	3	3
MATH 180	3	3
COMM 105	3	3
Language 1	3	3
Holistic Wellness	1	1
Total	16	16

Semester 2	Min	Max
ENGL 110 or 110H	3	3
CIS 160	3	3
CIS 284	3	3
CIS 191	3	3
Language 2	3	3
Total	15	15

Semester 3	Min	Max
CIS 285	3	3
CIS 281	3	3
CIS 291	3	3
Social Science	3	3
24GE History	3	3
Total	15	15

Semester 4	Min	Max
CIS 332	3	3
CIS 283 or CIS 335	3	3
MATH 111/111L or STAT 2xx	3	4
Intercultural-Global	3	3
Bible	3	3
Total	15	16

Semester 5	Min	Max
CIS 387	3	3
CIS 255 or CIS 384	3	3
Philosophy or Religion	3	3
Christian Beliefs	3	3
Free electives	6	6
Total	18	18

Semester 6	Min	Max
CIS 283 or CIS 335	3	3
CIS selective	3	3
Lab Science	3	4
Ethics & Common Good	3	3
Literature or Art	3	3
Total	15	16

Semester 7	Min	Max
CIS 471	3	3
INTE 394	4	4
Intercultural-US	3	3
Free electives	6	6
Total	16	16

Semester 8	Min	Max
CIS 472	3	3
CIS selective	3	3
Free electives	7	5
Total	13	11

8-semester plans are a suggested course sequence to be used as a guideline for degree completion. Students should work carefully with academic advisors to build an individual plan, using the 8-semester plan as a tool along with the degree audit and semester course schedules. 8-semester plans do not guarantee course offerings or available seats.

Software Development (B.S.)		
	Requirements SWDV	Credits
	Total credits in program	123
	Calculated Free electives	19
	Approved Free electives	19
	Major(+conc) + GenEd	104/6

General Education & Common Learning requirements	46/7
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First Year Seminar	IDFY 101/102H	3
Written Communication	ENGL 110/110H	3
Oral Communication	COMM 105	3
Mathematical and Scientific Ways of Knowing	Mathematics (CIS 181, MATH 180)	met/major
	Science with Lab	3/ 4
Social Scientific Ways of Knowing	Social Science	3
Cultural/Humanistic Ways of Knowing	24GE History	3
Literary & Aesthetic Ways of Knowing	Literature or Arts	3
Cultural/Humanistic Ways of Knowing	Philosophy or Religion	3
Cultural/Humanistic Ways of Knowing	1st and 2nd Level Language	6
Intercultural Perspectives	Intercultural Global or International Cross-cultural or 3rd language	3
Bible	24GE Bible	3
Christian Beliefs	24GE Christian Beliefs	3
Holistic Wellness	WELL 1xx	1
Ethics and the Common Good	24GE Ethics and the Common Good	3
Intercultural Perspectives	Intercultural U.S. or Domestic Cross-cultural	3
Common Learning	Experiential Learning (INTE 391/394)	met/major
	Writing in the major	CIS 472
	Capstone	CIS 471, CIS 472

Major requirements (incl. concentration)	58/9
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CIS 160 Introduction to CS and Cybersecurity	3
CIS 181 Computer Programming I	3

CIS 191 Web Development: Client Side	3
CIS 281 Programming for User Interaction	3
CIS 283 Business Systems Applications	3
CIS 284 Computer Programming II	3
CIS 285 Data Structures	3
CIS 291 Web Development: Server Side	3
CIS 332 Database Concepts	3
CIS 335 Software Engineering	3
CIS 387 Analysis of Algorithms	3
CIS 471 Application Development I (capstone)	3
CIS 472 Application Development II (capstone)	3
MATH 180 Discrete Mathematics	3

<i>Three credits from the following (System Operations)</i>	3
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- CIS 251 Hardware and Software (3)
- CIS 255 NIX System Administration and Security (3)
- CIS 384 Elements of Computing Systems (3)

<i>Six credits from the following (Specialized Development)</i>	6
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- CIS 315 Intro to Mobile App and Game Design (3)
- CIS 325 Data Communications and Networking (3)
- CIS 416 Operating Systems & Computer Architecture (3)
- CIS 418 Machine Learning* (3)
- CIS 482 Organization of Programming Languages (3)
- CIS 487 Interactive 3D Graphics* (3)

<i>Four credits from the following (Junior/Senior year)</i>	4
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- INTE 394 Internship (4-12 credits)**
- INTE 391 Internship (1-3 credits)**

<i>Three to four credits from the following:</i>	3/ 4
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- MATH 111 Calculus I (4)
- STAT 269 Introductory Statistics (3)
- STAT 281 Applied Statistics for Management (3)

NOTES

* This course requires prerequisite(s), which may increase the total credits required for the major.

** INTE 391/394 must be taken for a letter grade to fulfill major requirement